Command Level

Maintenance & Material Management

part 2 of 2

Maintenance Data System

Your Voice Back to the "Technical Community"

Maintenance Data System

- ✓ What is MDS
- ✓ Off Ship Reporting
- ✓ System Feedback
- ✓ Maintenance & Supply
- ✓ Price of Failure

Maintenance Data System

Means to report maintenance requirements and configuration changes

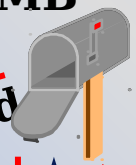
The Flow of Maintenance Data

FROM KNOWLEDGE MU EFFECTIVENESS

RADCOM

OMMS-NG
Configuration Changes &
Work Candidates (WCs)
Job Templates (ICMP DB)

RADMB



OARS
3-M History DB

Completed WCs

Open WCs (CSMP)

Status

SNAP DB Updates (ASI)

Configuration Changes

RMAI SDB

NAVICP

COSAL DB

Allowanc

CDMD OA SCLSIS

Open WCs

Regional Repair Activities

ICMP DB

Configuration Data Managers

Maintenance Data System

SHIPS

MAINTENANCE MANAGER

RSG/RMC

COSAL PRODUCTION

LOGISTICS DATA

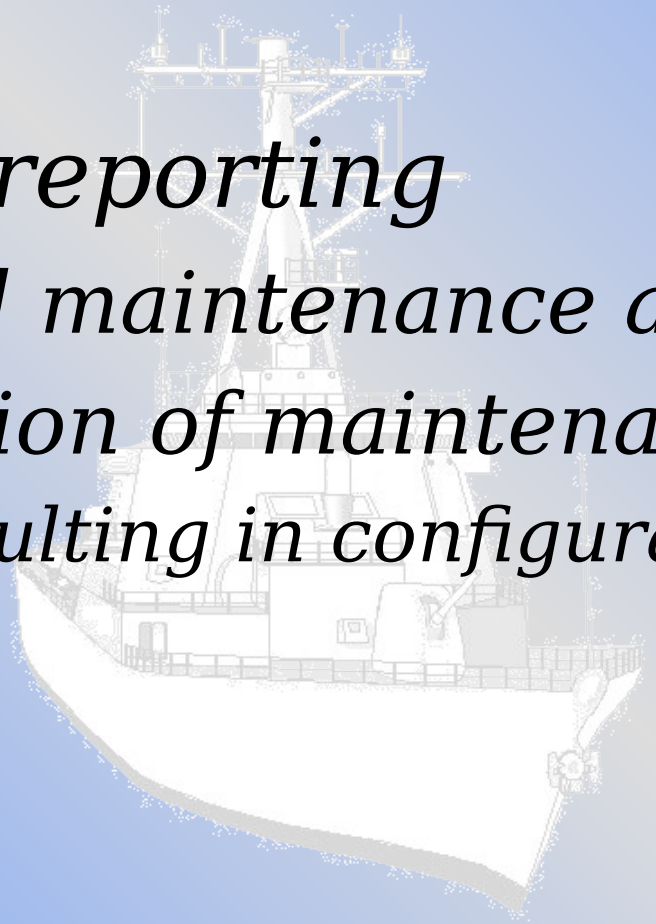
3-M SYSTEMS CENTRAL DATABASE

CONFIGURATION DATA MANAGER (CDM)

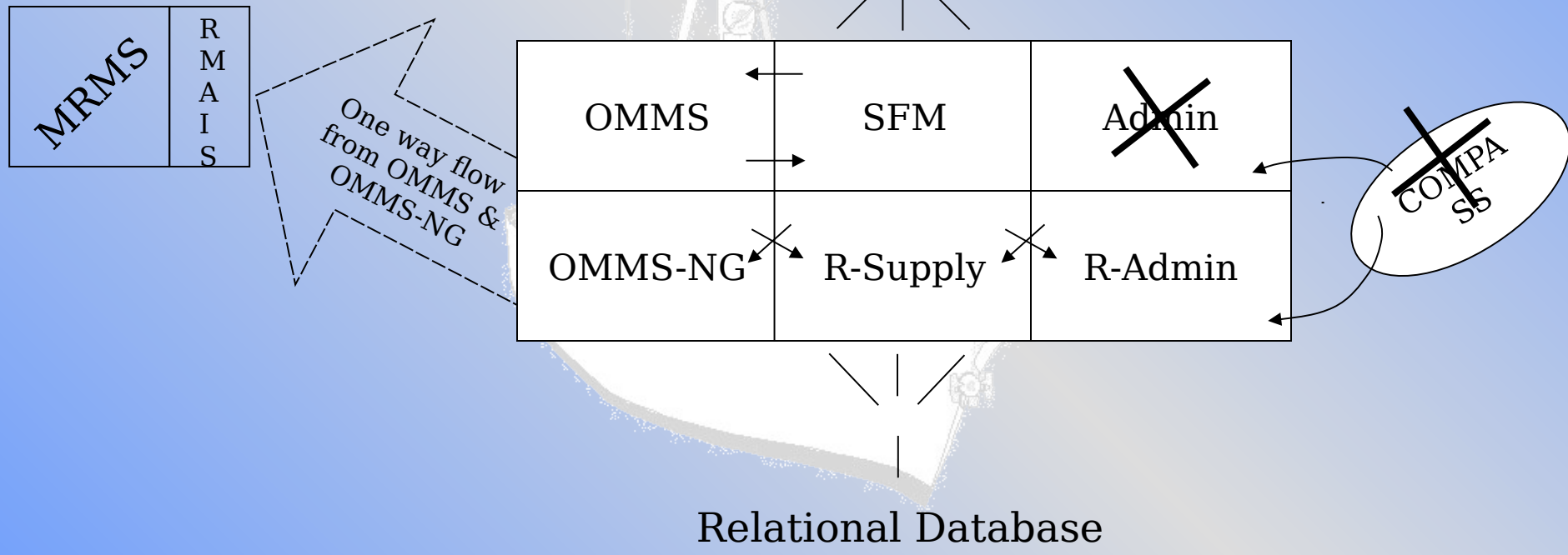
SCLSIS DATABASE

Maintenance Action Form
(Work Candidate - OPNAV Form 4790/2K)

- Used for reporting
  - Deferred maintenance actions
  - Completion of maintenance actions
    - Not resulting in configuration change



SNAP (I, II, III, Micro) & Optimized SNAP (aka SNAP-NG or OPTIMIZE)



Deferred Maintenance Action

Meets one of the following conditions

- Work that cannot be accomplished by the originating work center
- Requires assistance external to the ship
- Not to be accomplished in 24 hours
- Uncorrected INSURV discrepancy
- Correct situation that caused or may cause injury or equipment damage
- Involves SEL equipment

Completed Maintenance Action

Meets one of the following

- *Previously deferred*
- *Non-deferred corrective maintenance*
- *Completed alteration*
- *Installation of new equipment*
- *Replace, exchange, or remove equipment*
- *Significant maintenance history action*
- *Required parts to be requisitioned**

* Current Force Supply policy requ
most situations, that a work candi
created prior to the issuing· of rep

Validating & Diagnosing Work

S / F Creation Of Valid CSMP Entries

Technical Data
APL-EIC
Location - Serial #

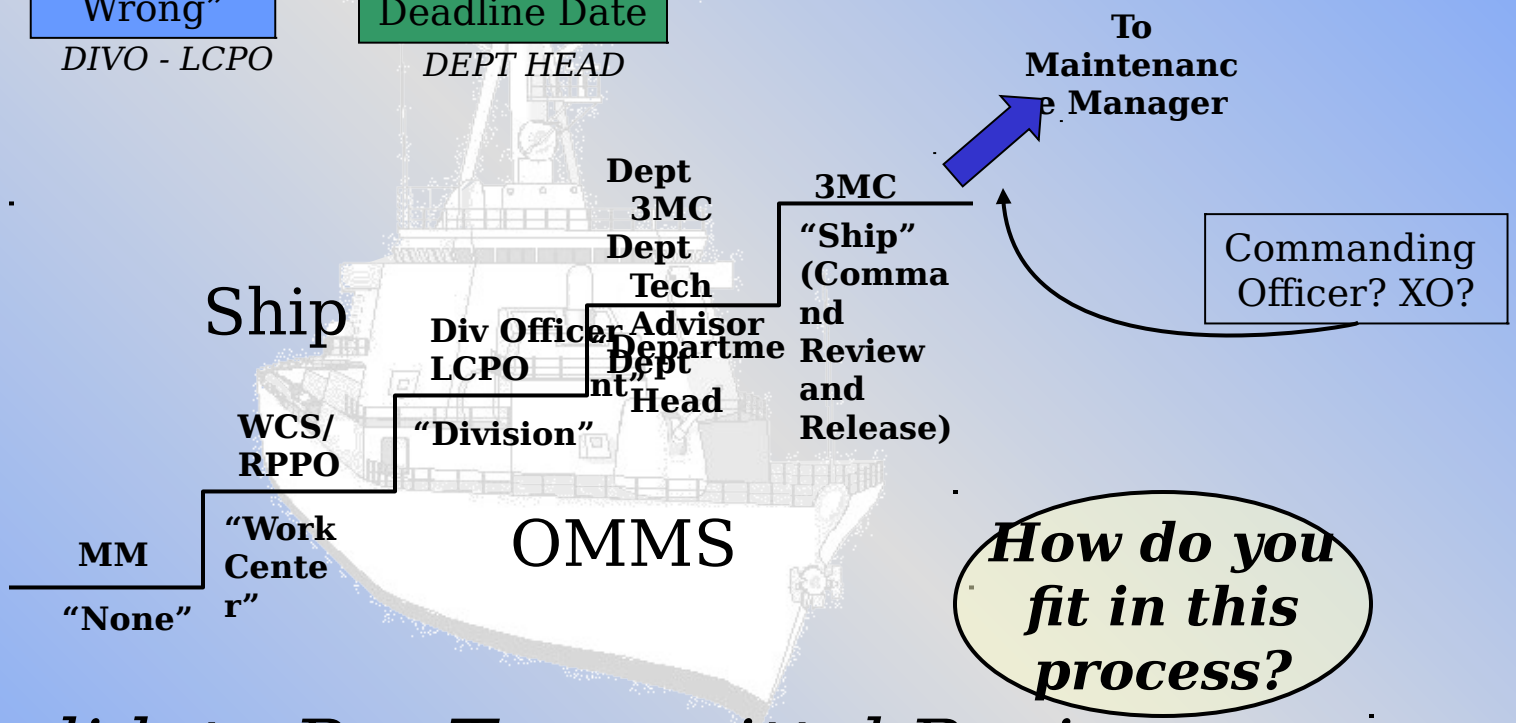
WCS

Block 35
"What's
Wrong"

DIVO - LCPO

Summary,
Priority &
Deadline Date

DEPT HEAD



Work Candidate Pre-Transmittal Review

Maintenance Data System

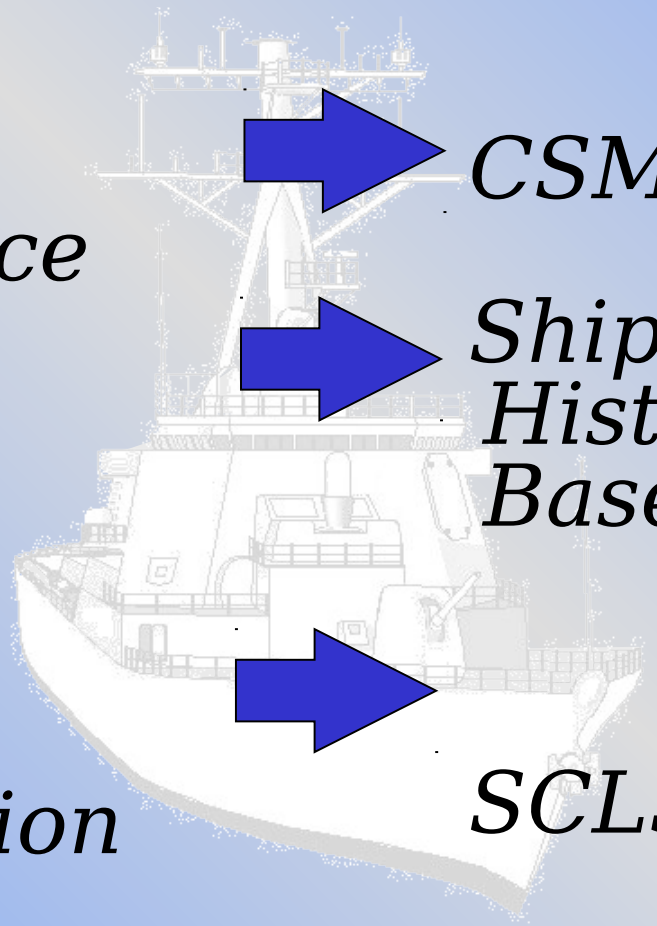
3-M Maintenance Actions

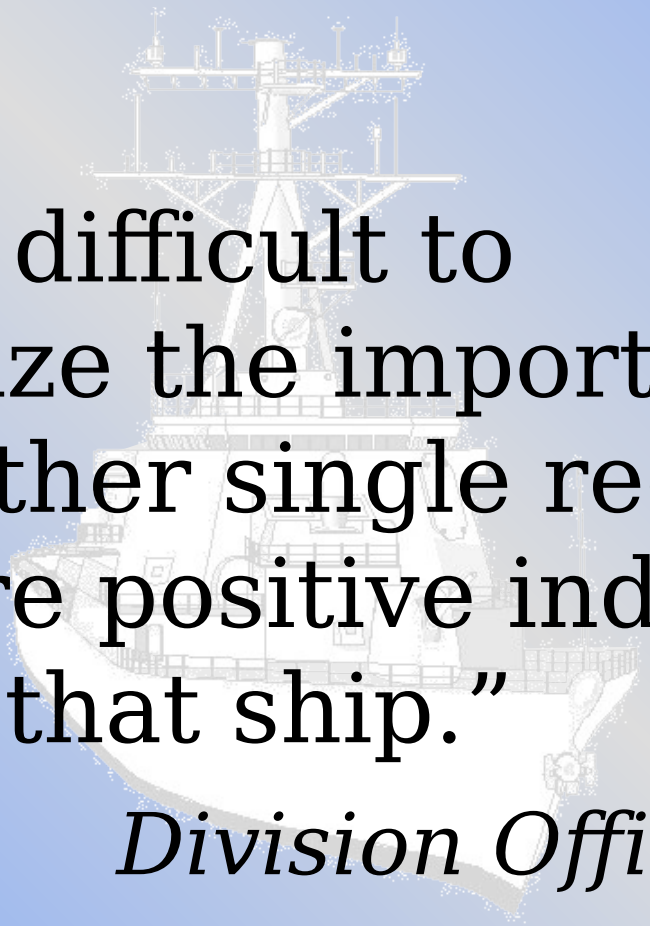
CSMP

Ship's 3-M History Data Base

3-M Configuration Changes

SCLSIS





"It would be difficult to overemphasize the importance of the CSMP. No other single record aboard ship is a more positive indicator of the efficiency of that ship."

Division Officer's Guide, 19

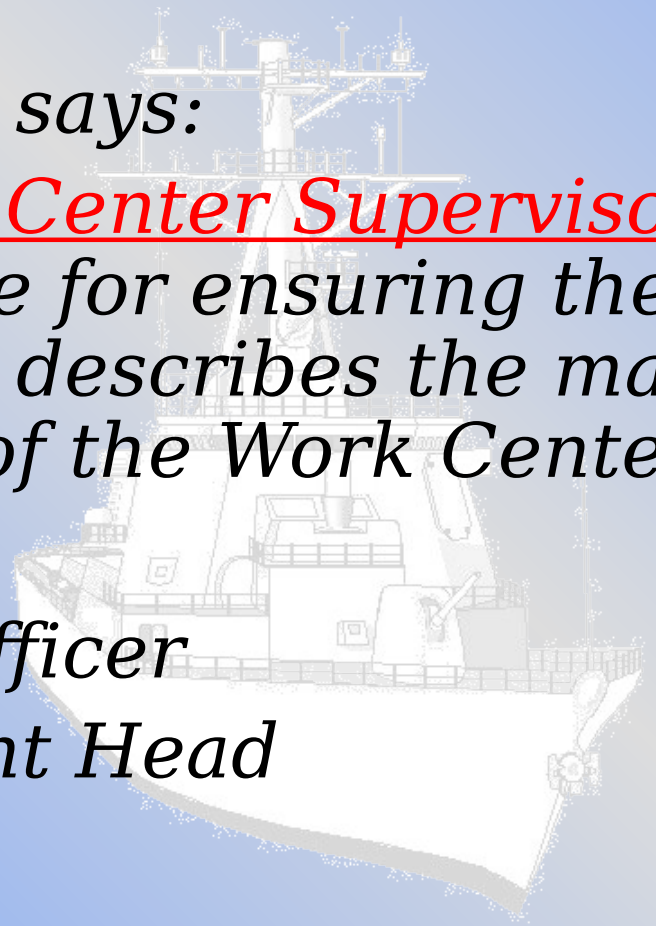
CSMP

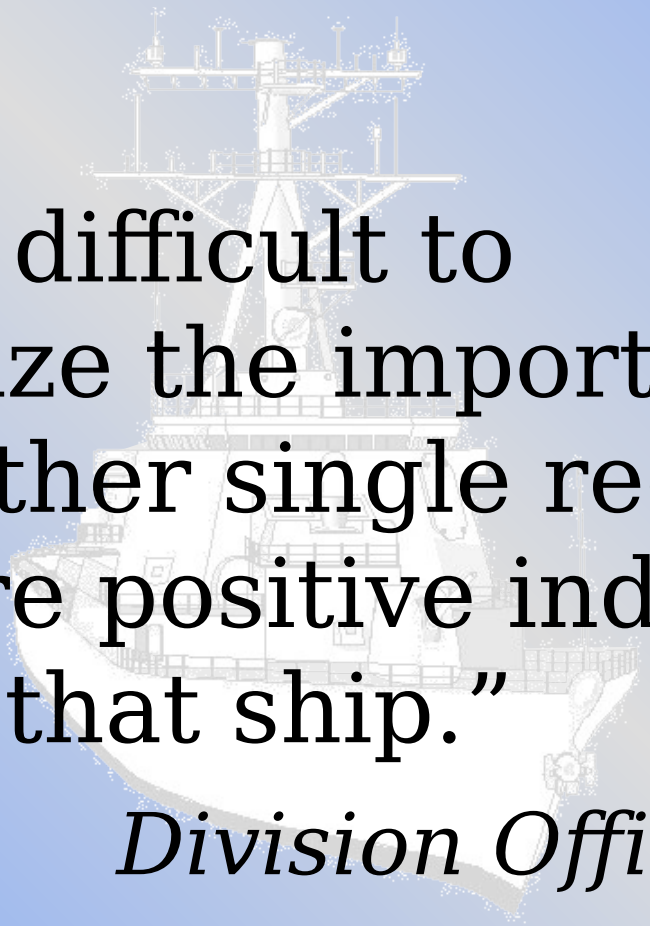
3-M Manual says:

"Each Work Center Supervisor is responsible for ensuring the CSMP accurately describes the material condition of the Work Center."

Implied:

- *Division Officer*
- *Department Head*
- *Command*





"It would be difficult to overemphasize the importance of the CSMP. No other single record aboard ship is a more positive indicator of the efficiency of that ship."

Division Officer's Guide, 19

Current Ship Maintenance Project

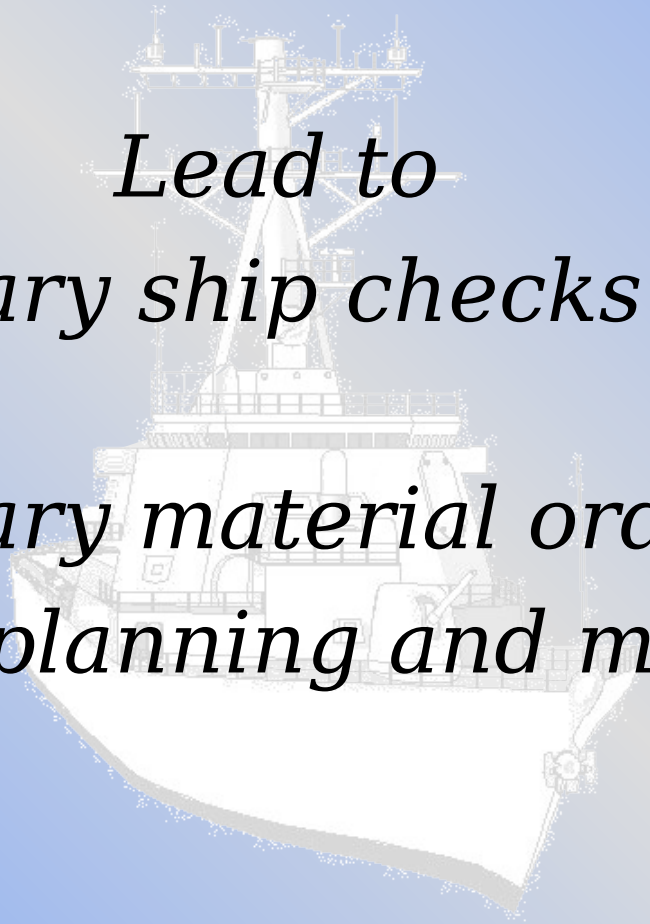
- *Two CSMP Files*
  - *Ship*
    - *Maintained by the Ship's 3M Coordinator*
    - *Upload to Shore File at Least Twice a Week*
    - *More Often Is Better*
  - *Shore*
    - ***Master Document***
    - *Maintained by the Maintenance Manager*
    - *Primary Availability Planning Tool*

concile often, weekly is preferred…account for each W

CSMP Deficiencies

Lead to

- *Unnecessary ship checks and planning*
- *Unnecessary material ordering*
- *Incorrect planning and material*



Predominant CSMP Deficiencies

- *Incomplete documentation*
  - *Up to 20% of valid items missing from CSMP*
  - *Goal: maintain at least 90% documented items*
- *Completed work not closed*
  - *Up to 40% of items on CSMP should be closed*
  - *Goal: close 100% of items within one week of completion*
- *Incorrect data*
  - *APL, etc.*

Assessing CSMP

- *Initial*
  - *Do work candidates state the problem?*
  - *Are priorities appropriate?*
  - *Are deadline dates appropriate & current?*
- *Periodic*
  - *Ship & shore file reconciliation – is data current?*
  - *How old are the work candidates?*
  - *Will they ever get accomplished?*
  - *Planned for the next avail?*
  - *Are parts ordered against the items?*
  - *Is the item complete? If*
    - *GET IT OFF!!*

How is the Chief involv

Part of DITS

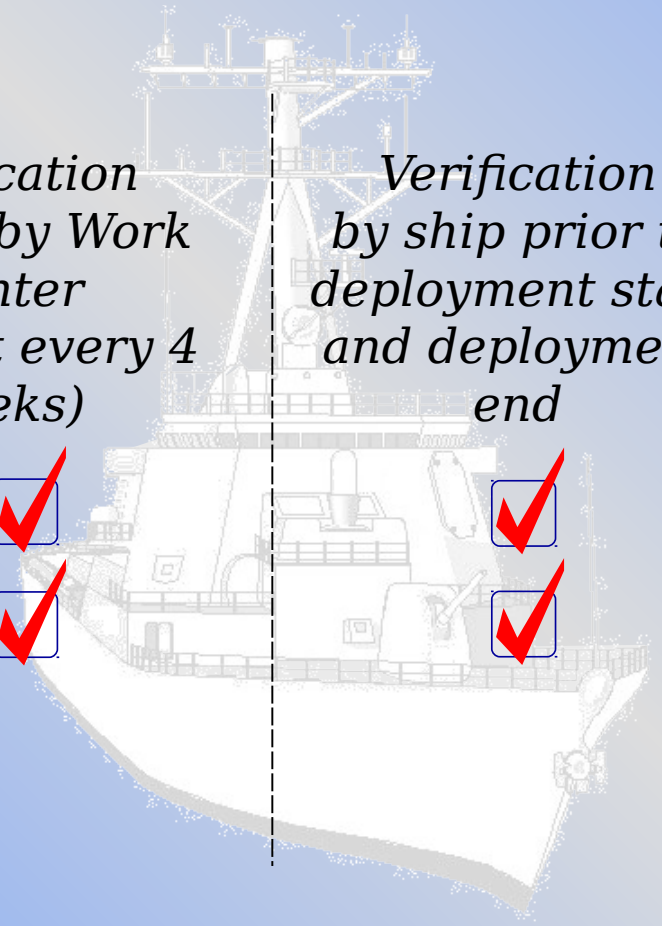
Key Element of PB4M agenda

CSMP Review Tools

- *No Automated Feedback to Ship*
  - *Automated systems are one-way flow*
- *Daily shore file update*
  - *E-mail to 3-MC*
  - *Attachment used to update items initiated by ship*
- *Reports provided to ship*
  - *Work Candidate Status (T/A 1, 2, 3) – weekly*
  - *Depot Availability Authorized Work Package Status – weekly*
  - *Screening Return to Customer – weekly*
  - *Screening Return to Customer Summary – monthly*
  - *Up-line Status – as occurring*

When Do CSMP Reconciliations?

CSMP	Verification weekly by Work Center (At least every 4 weeks)	Verification by ship prior to deployment start and deployment end	Reconciliation by ship, RSG, others prior to FMAV, ALR, CNO avail WPIC
Ship's File	☑	☑	☑
Shore File	☑	☑	☑
SIMA "Working" File			☑

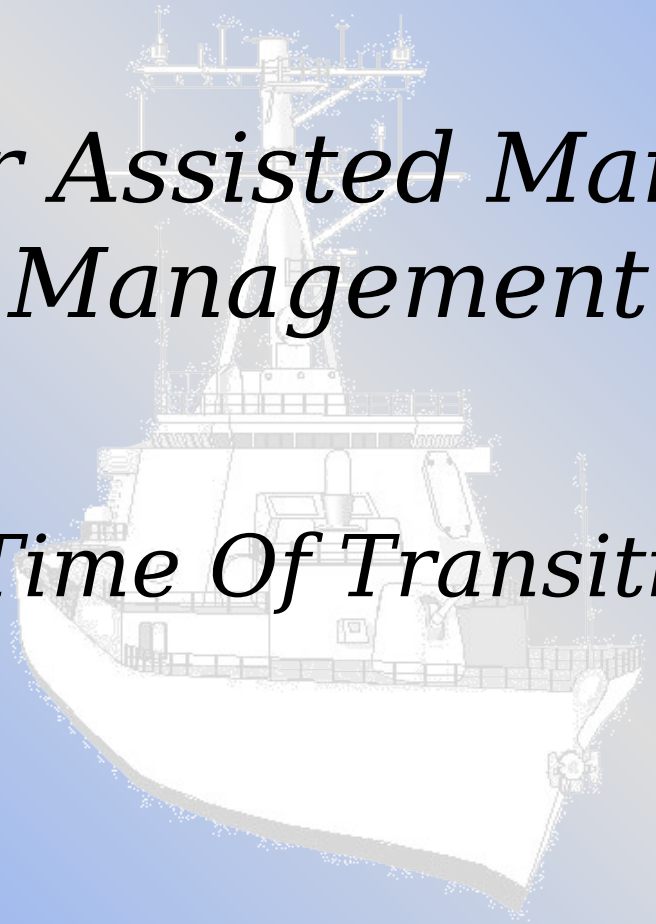


A Dynamic CSMP

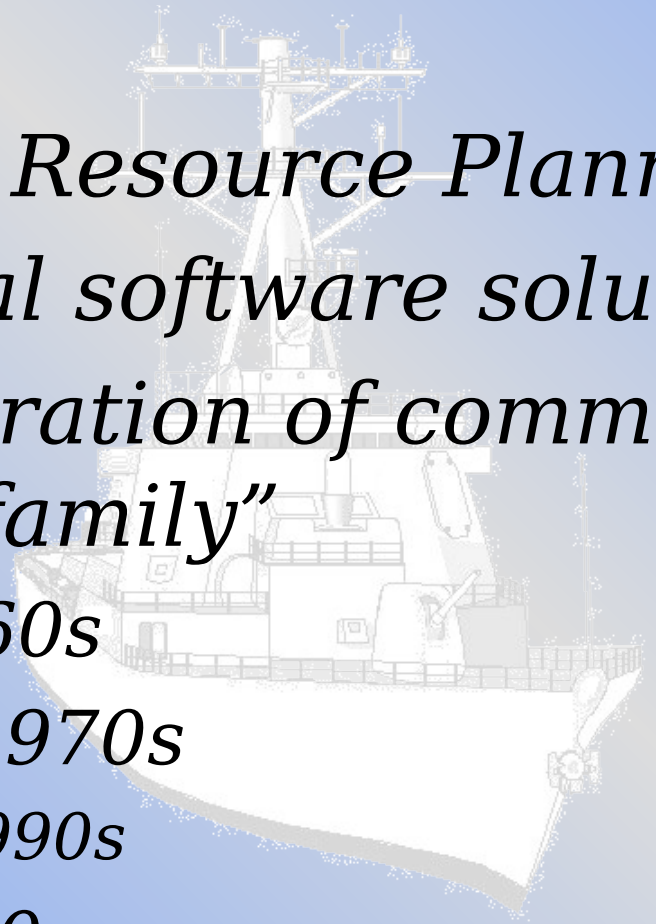
- *Know your "Top Ten" non-emergent jobs*
- *Be prepared for an "Availability of Opportunity"*
  - *Continuous execution*
  - *Will become more important with SHIPMAIN*

Computer Assisted Maintenance Management

A Time Of Transition



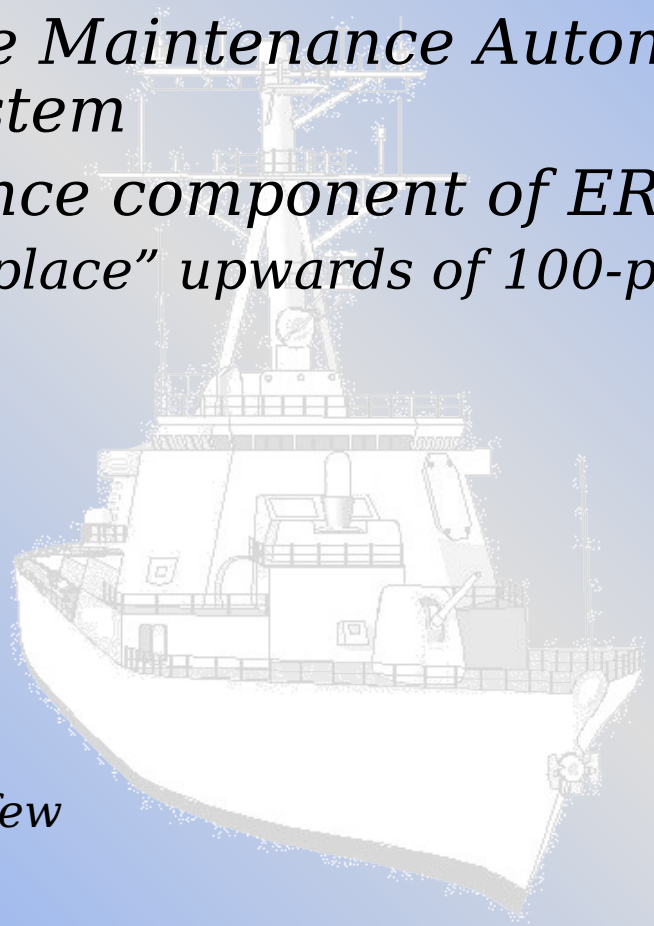
What is ERP?

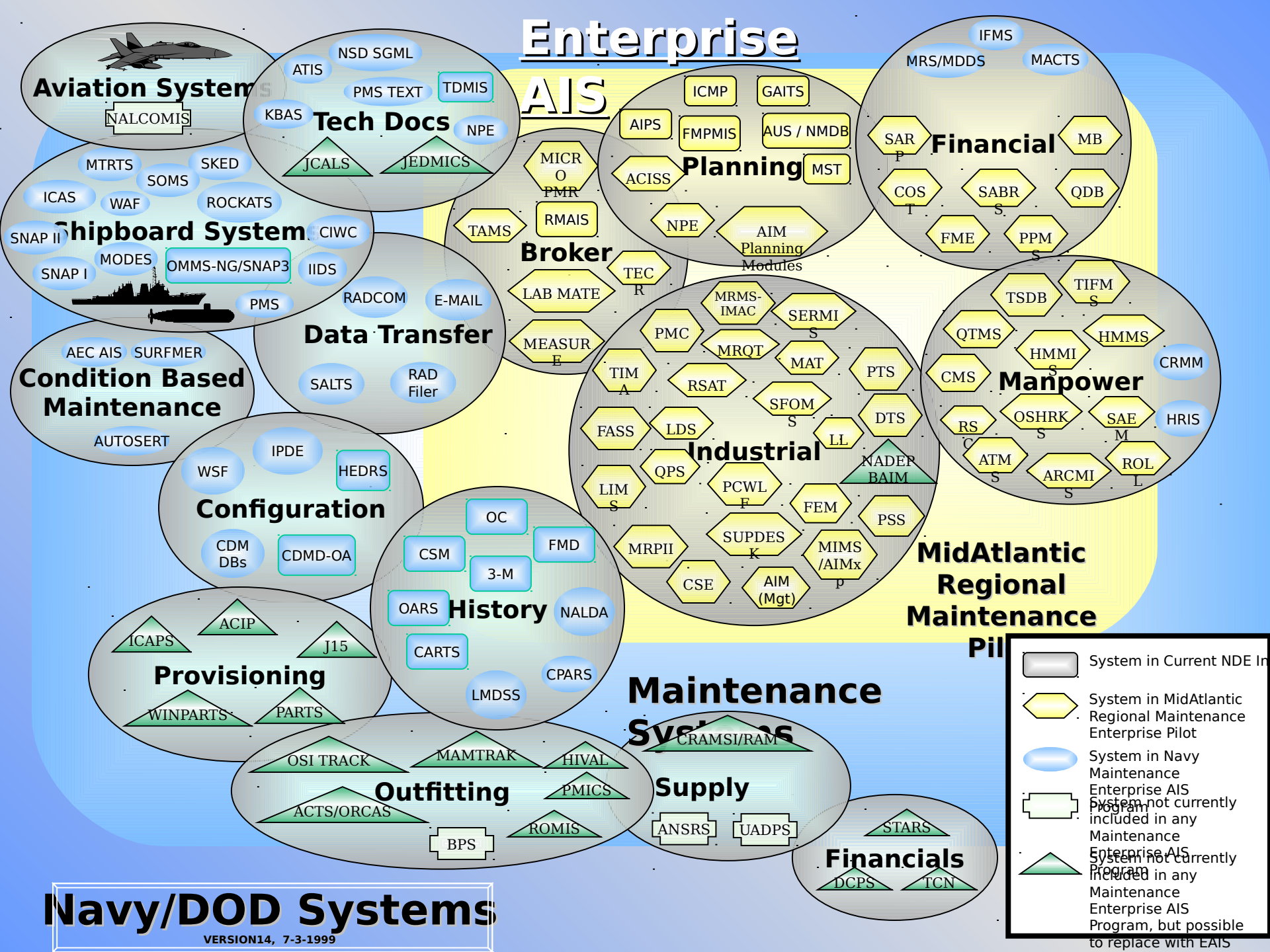


- *Enterprise Resource Planning*
- *Commercial software solution*
- *Third generation of commercial software "family"*
  - *MRP – 1960s*
  - *MRP II – 1970s*
    - *MRO – 1990s*
  - *ERP – 1990s*
    - *The "supply chain"*

What is NEMAIS?

- *Navy Enterprise Maintenance Automated Information System*
- *Navy maintenance component of ERP*
  - *Intended to "replace" upwards of 100-plus legacy systems, including*
    - *3-M*
    - *SNAP*
    - *RMAIS*
    - *MRMS*
    - *MRP II*
    - *SCLSIS*
    - *FMPMIS*
    - *Just to name a few*




Enterprise AIS
Aviation System
NALCOMIS
NSD SGML
ATIS
PMS TEXT
TDMIS
KBAS
Tech Docs
NPE
JCALS
JEDMICS
MTRTS
SKED
SOMS
ICAS
WAF
ROCKATS
Shipboard System
SNAP II
CIWC
MODES
SNAP I
OMMS-NG/SNAP3
IIDS
PMS
RADCOM
E-MAIL
Data Transfer
SALTS
RAD Filer
AEC AIS
SURFMER
Condition Based Maintenance
AUTOSERT
IPDE
WSF
HEDRS
Configuration
CDM DBs
CDMD-OA
OC
CSM
FMD
3-M
OARS
History
NALDA
CARTS
CPARS
LMDSS
ACIP
ICAPS
J15
Provisioning
WINPARTS
PARTS
OSI TRACK
MAMTRAK
HIVAL
PMICS
Outfitting
ACTS/ORCAS
ROMIS
BPS
MICRO PMR
TAMS
RMAIS
Broker
LAB MATE
TECR
MEASURE
ICMP
GAITS
AIPS
FMPMIS
AUS / NMDB
ACISS
Planning
MST
NPE
AIM Planning Modules
MRMS-IMAC
SERMIS
PMC
MRQT
MAT
PTS
TIMA
RSAT
SFOMS
DTS
FASS
LDS
LL
Industrial
NADER BAIM
QPS
PCWLF
FEM
PSS
LIMS
SUPDESK
MIMS /AIMxp
MRPII
CSE
AIM (Mgt)
IFMS
MRS/MDDS
MACTS
SARP
Financial
MB
COST
SABRS
QDB
FME
PPMS
TSDB
TIFMS
QTMS
HMMS
HMMIS
CRMM
CMS
Manpower
RSC
OSHRKS
SAEM
HRIS
ATMS
ARCMIS
ROLL
MidAtlantic Regional Maintenance Pil
Maintenance Sys
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ANSRS
UADPS
STARS
Financials
DCPS
TCN
Navy/DOD Systems
VERSION14, 7-3-1999
System in Current NDE In
System in MidAtlantic Regional Maintenance Enterprise Pilot
System in Navy Maintenance Enterprise AIS Program
System not currently included in any Maintenance Enterprise AIS Program
System not currently included in any Maintenance Enterprise AIS Program, but possible to replace with EAIS

Configuration Management

FROM KNOWLEDGE MU EFFECTIVENESS

Ship

Configuration

&

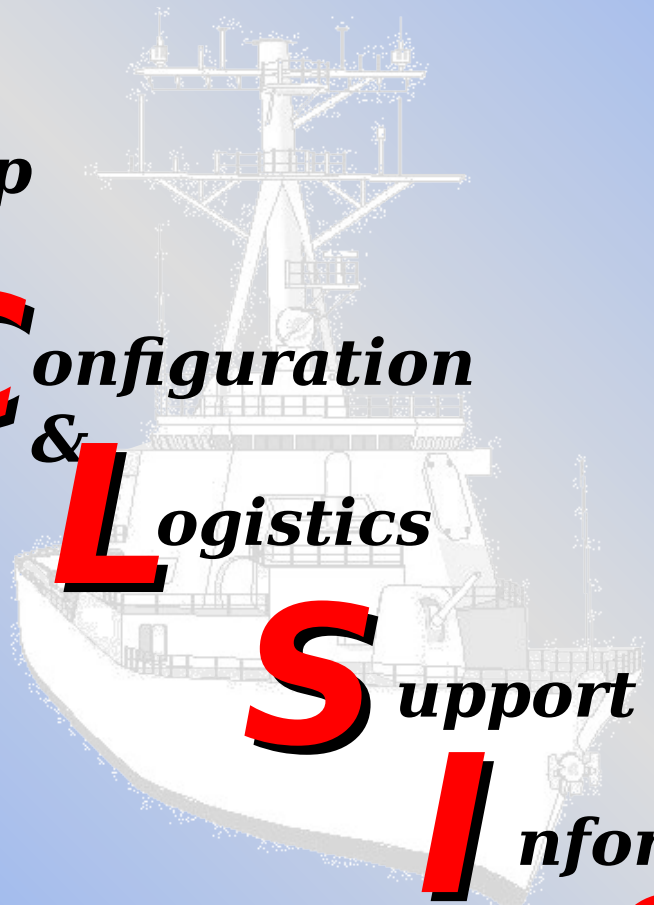
Logistics

Support

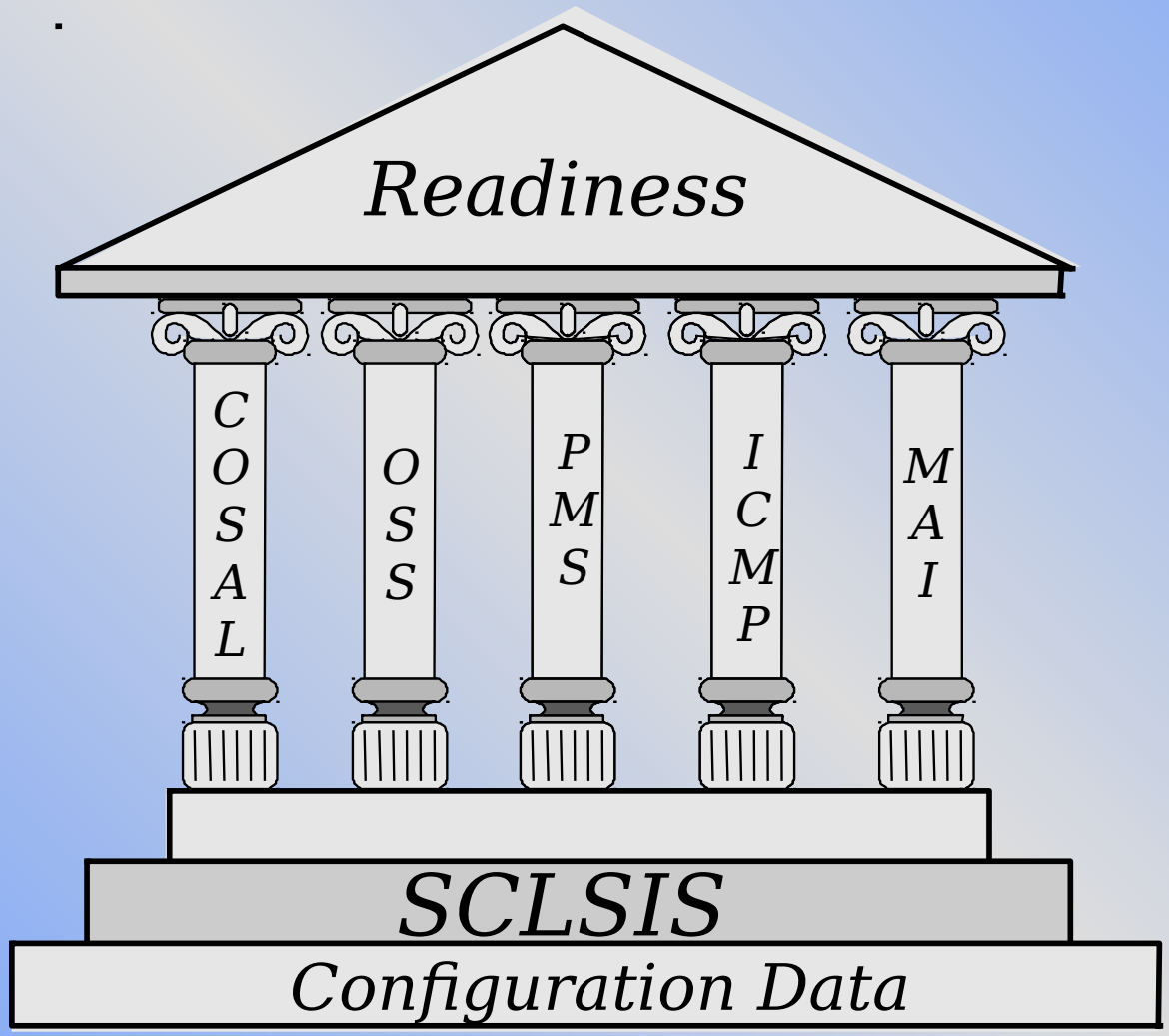
Informatio

n

System



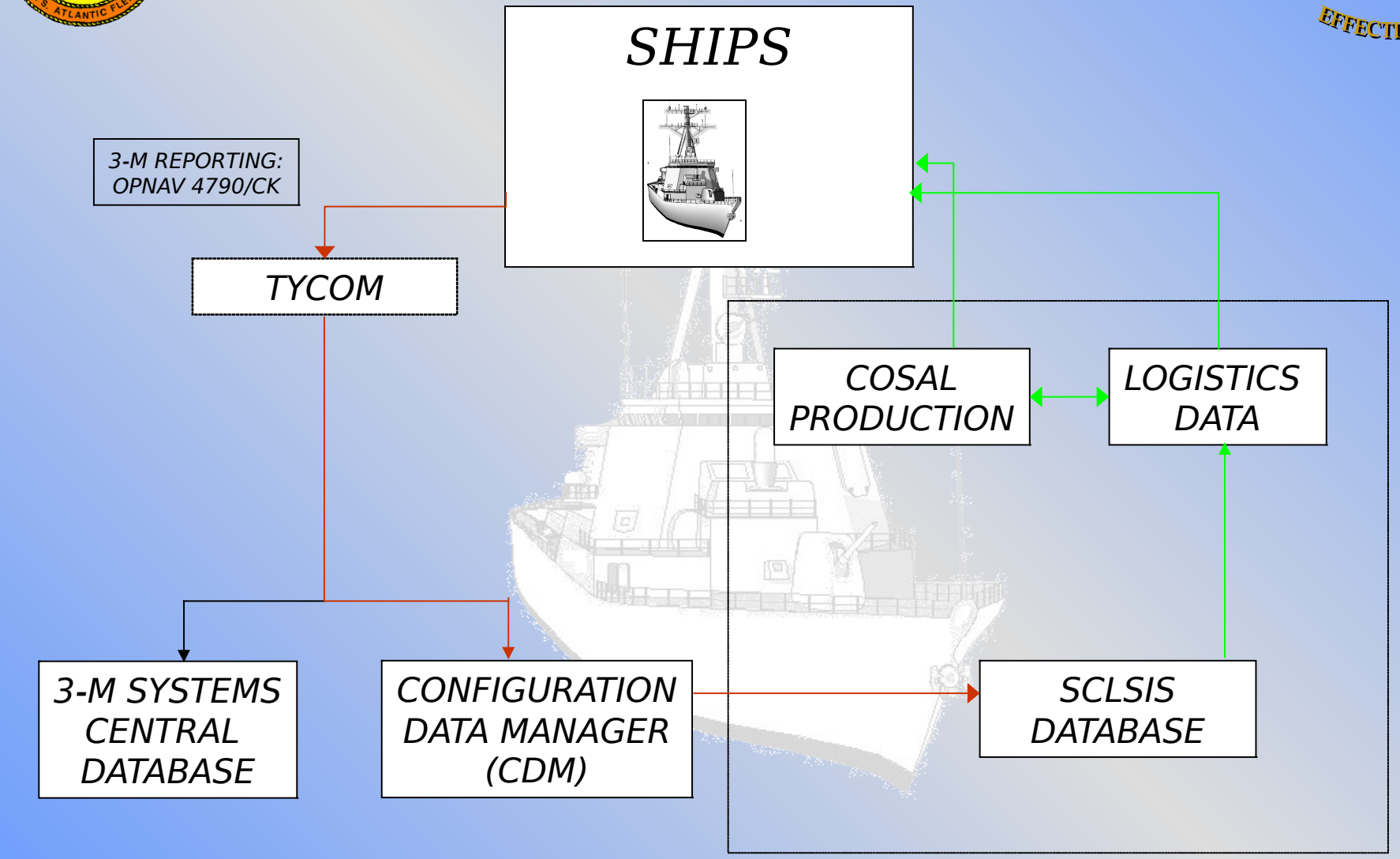
SCLSIS Database



SCLSIS

- *Configuration Data Manager (CDM) has Control Authority for Ship Class*
- *Ships Maintain On-Line Copy*
- *Used to Fill Out Maintenance Actions*
  - *W/O Using Manuals or On-line References*
  - *COSAL Built From SCLSIS Database*
  - *Calculate Allowances for Parts Carried Onboard*

SCLSIS Reporting



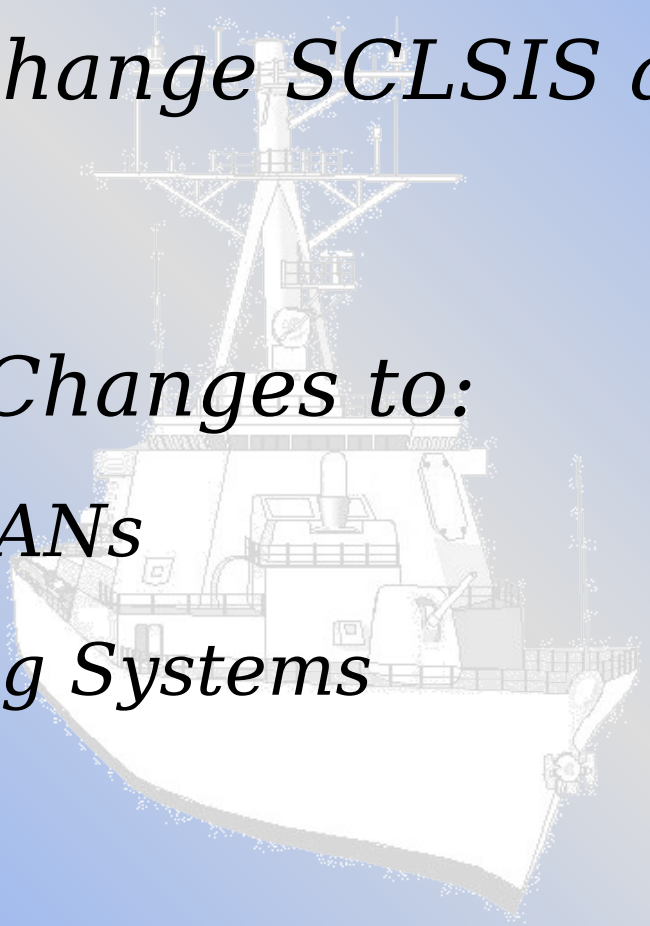
Configuration Change Form (OPNAV Form 4790/CK)

- *Used to*
  - *Report completion (or partial completion) of*
    - *Alterations*
    - *Maintenance actions that resulted in a configuration change*
  - *Correct discrepancies and errors in the configuration files*
- *All need to be reported*

Ship Is Responsible for Reporting

Configuration Change Forms

- *Input to change SCLSIS and COSAL*
- *Triggers Changes to:*
  - *TECHMANs*
  - *Operating Systems*
  - *PMS*
  - *GPETE*
  - *Training*



SCLSIS

- *Updating Responsibility*
  - *Non-depot level*
    - *Ship is Responsible to Draft and Submit*
  - *Depot Level - in the Yards*
    - *Shipyard is Tasked to Draft*
    - *SHIP IS RESPONSIBLE TO SEND*
  - *Depot Level - Not in CNO Availability*
    - *Contractor is Tasked to Draft*
    - *SHIP IS RESPONSIBLE TO SEND*

Maintaining Configuration

- *Perform sight validation*
- *Prepare Configuration Report (CK)*
- *Submit report*
- *Verify response*

The Price of Failure

- *Poor quality CSMP*
  - *Reported Material Condition is not accurate*
  - *Required work is not identified*
  - *Fixed availability funds are wasted*

Your gear is not ready and you can't get required repair services

- *No publication support*
- *No training support*

You have no ILS to fix your gear

The Price of Failure

- *Poor quality CSMP*
  - *Reported Material Condition is not accurate*
  - *Required work is not identified*
  - *Fixed availabil*

Your ge *uired*

- *No*
- *No t*

Not supporting MDS directly affects the readiness of <u>your</u> ship now and in the future!

You have no ILS to fix your gear

Command Level

Next Topic
Navy Maintenance Organization